

## Product Overview

### CS51022A: PWM Controller, Enhanced Current Mode, for Forward or Flyback (36-72 V Telecom)

For complete documentation, see the data sheet.

The CS51021/22/23/24 Fixed Frequency PWM Current Mode Controller family provides all necessary features required for AC-DC or DC-DC primary side control. Several features are included eliminating the additional components needed to implement them externally. In addition to low start-up current (75uA) and high frequency operation capability, the CS51021/22/23/24 family includes over-voltage and under-voltage monitoring, externally programmable dual threshold over-current protection, current sense leading edge blanking, current slope compensation, accurate duty cycle control and an externally available 5V reference. The CS51021 and CS51023 feature bidirectional synchronization capability, while the CS51022 and CS51024 offer a sleep mode with 100uA maximum IC current consumption. The CS51021/22/23/24 family is available in a 16 lead narrow body SO package.

### Features

- Under-voltage Protection Monitor
- Fixed Frequency Current Mode Control
- Accurate Maximum Duty Cycle Limit
- Bidirectional Synchronization (CS51021A)
- Leading Edge Current Sense Blanking
- Programmable Slope Compensation
- 75 mA Max.Startup Current
- 50ns PWM Propagation Delay
- Programmable Soft Start
- 1.0 MHz Switching Frequency

For more features, see the data sheet

### Applications

- 36 - 72V Telecom

### End Products

- DC-DC Telecom Bricks

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Topology	Phases	Control Mode	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	f <sub>sw</sub> Typ (kHz)	Package Type
CS51022ADBR2G	1.6666	Pb-free	Active	Step-Down	1	Current Mode	8.2	20	Up to 1000	TSSOP-16
		Halide free non AEC-Q and PPAP								
CS51022AEDR16G	1.2	Pb-free Halide free non AEC-Q and PPAP	Active	Step-Down	1	Current Mode	8.2	20	Up to 1000	SOIC-16

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 7/30/2021